

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 50 AND DUTCHMANS LANE IN TALBOT COUNTY. US 50 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE EXISTING EIGHT-PHASE, FULL-TRAFFIC-ACTUATED NEMA CONTROLLER HOUSED IN A BASE MOUNTED CABINET IS BEING USED. THE CONTROLLER CURRENTLY OPERATES AS A SIX-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER WITH AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR E.B. AND W.B. US 50, FIREHOUSE PRE-EMPTION 1-3, AND SIDE STREET SPLIT PHASING. THE CURRENT OPERATION WILL NOT CHANGE.

PHASING CHART

	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 1 & 5	R	R	R	R	R	R	R	R	R	R	R	R
1 & 5 CHANGE	PHASE 1 & 5 CHANGE MAY CHANGE TO PHASE 1 & 6, 2 & 5 OR 2 & 6											
PHASE 1 & 6	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1 & 6 CHANGE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PHASE 2 & 5	R	R	R	R	R	R	R	R	R	R	R	R
2 & 5 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 & 6	G	G	G	G	G	G	G	G	G	G	G	G
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PHASE 3	R	R	R	R	R	R	R	R	R	R	R	R
3 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4	R	R	R	R	R	R	R	R	R	R	R	R
4 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR  
ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO DOTS FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	2 CY	TEST PIT EXCAVATION
5005	50 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING
8011	18 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION
8013	1 EA	FURNISH AND INSTALL 15 FT. STREET LIGHTING ARM FOR SIGNAL POLE
8014	1 EA	FURNISH AND INSTALL 250 WATT HPSV LUMINAIRE
8019	6 EA	FURNISH AND INSTALL 8 IN. VEHICULAR SIGNAL HEAD SECTION
8024	2 EA	FURNISH AND INSTALL 70 FT. MAST ARM AND POLE
8048	LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
8051	30 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
8052	75 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
8056	670 LF	FURNISH AND INSTALL 4-CONDUCTOR OPTICOM DETECTION EYE CABLE
8057	10 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8060	510 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE
8068	40 LF	FURNISH AND INSTALL 1 IN. LIQUID TIGHT, FLEXIBLE, NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8072	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8080	2 EA	FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER X 10 FT. LENGTH
8081	1580 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR ALUMINUM SHIELDED
8084	90 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR NO. 14 AWG
8085	1525 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR NO. 14 AWG
8086	240 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR NO. 12 AWG
8087	1620 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN 1/4 IN. FLEXIBLE TUBING (NO. 14 AWG)
8088	475 LF	FURNISH AND INSTALL SAW CUT FOR LOOP DETECTOR
---	6 EA	RELOCATE EXISTING SIGN
---	1 EA	RELOCATE EXISTING SIGNAL
---	2 EA	RELOCATE EXISTING 3-M OPTICOM DETECTION EYE
---	1 EA	FURNISH AND INSTALL R3-5(L) SIGN (30" X 36") MAST ARM MOUNT
---	2 EA	FURNISH AND INSTALL R3-5(R) SIGN (30" X 36") MAST ARM MOUNT
---	1 EA	FURNISH AND INSTALL SHIELD ASSEMBLY M3-4 SIGN (12" X 24"), M1-4 SIGN (24" X 24"), M6-1 SIGN (15" X 21") MAST ARM POLE MOUNT
---	1 EA	FURNISH AND INSTALL SHIELD ASSEMBLY M3-2 SIGN (15" X 30"), M1-4 SIGN (36" X 36"), M6-1 SIGN (24" X 30") MAST ARM POLE MOUNT

EQUIPMENT LIST "A"

A. APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

CONTACT PERSONS FOR DISTRICT 2 ARE AS FOLLOWS:

MR. ROBERT KIEL  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
(410) 778-3061

MR. TERRY WRIGHT  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
(410) 778-3061

MR. BARRY CLOTHIER  
ASSISTANT DISTRICT ENGINEER - UTILITIES  
(410) 778-3061

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.  
CHIEF, TRAFFIC OPERATIONS  
(410) 787-7630

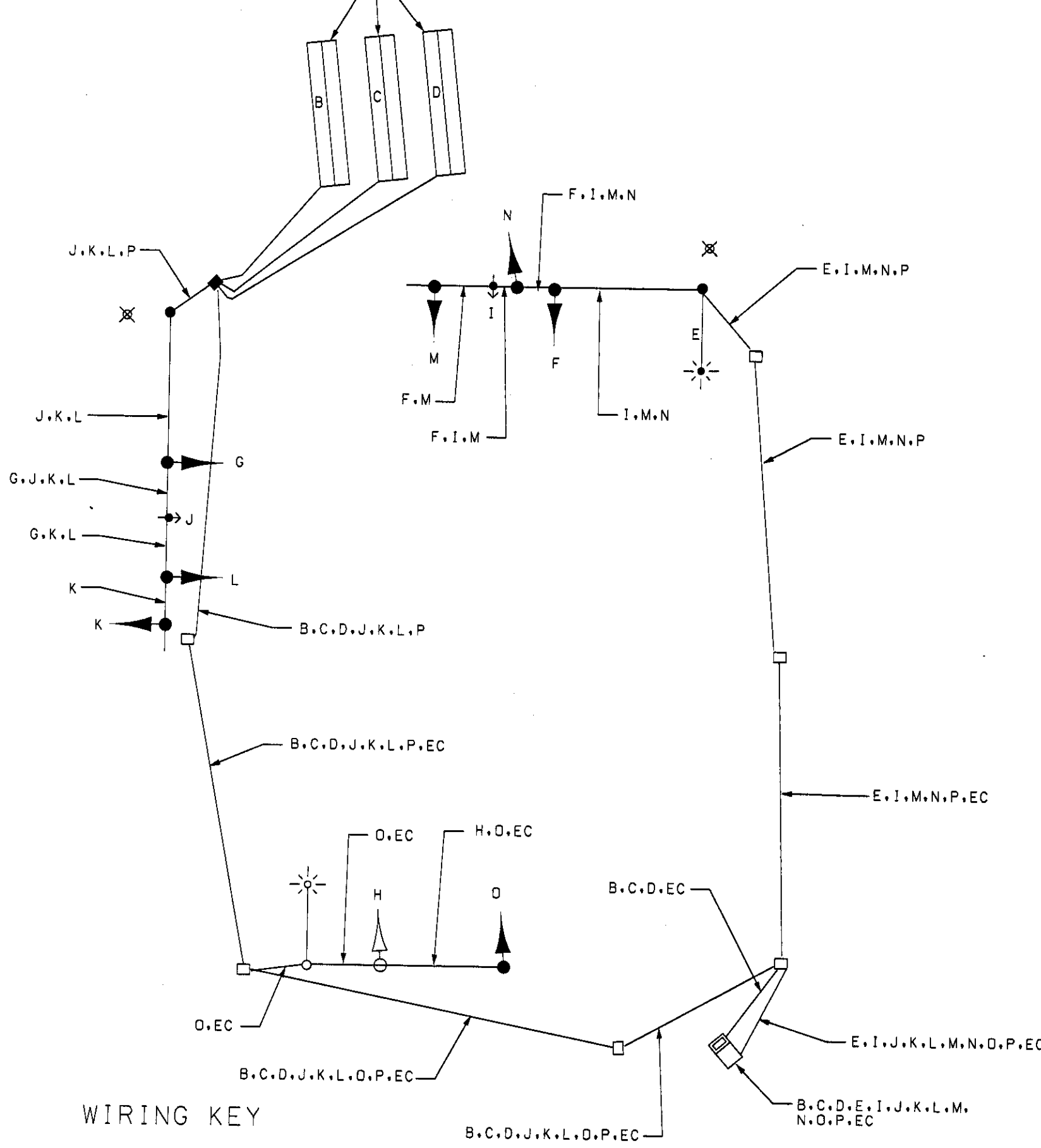
MR. EUGENE BAILEY  
TEAM LEADER SIGN OPERATIONS  
(410) 787-7676

MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF,  
TRAFFIC OPERATIONS  
(410) 787-7631

MS. DARLENE EIDE  
SUPPLY OFFICE  
SIGNAL SHOP WAREHOUSE  
(410) 787-7668

MR. ED RODENHIZER  
TEAM LEADER SIGNAL OPERATIONS  
(410) 787-7652

WIRING DIAGRAM



WIRING KEY

B-D	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED	EC	EXISTING CABLE
E	2 CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)	LW	LOOP WIRE (NO. 14 A.W.G.)
F-H	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	X	GROUND ROD
I-J	4 CONDUCTOR OPTICOM DETECTION CABLE		
K-O	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)		
P	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)		

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR

**TRAFFIC CONCEPTS, INC.**  
325 Gambrills Road  
Suite E  
Gambrills, MD 21054  
(410) 923-7101

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
Office of Traffic & Safety  
**TRAFFIC ENGINEERING DESIGN DIVISION**  
GENERAL INFORMATION  
US 50 AND DUTCHMANS LANE

DRAWN BY: M.HOWELL	F.A.P. NO. 348 E-GI	TS NO. 348 E-GI	SHEET NO. 2 OF 2
CHECKED BY: T.ZAYDEL	S.H.A. NO. 23855T2508332		
SCALE: 1" = 20'	COUNTY: TALBOT	T.I.M.S. NO. F640	
DATE: 1-30-03	LOG MILE: 20005012.51		